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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/931,028	(08/17/2001	Toru Hayase	. 0445-0302P-SP	2692	
2292	7590	03/21/2005		EXAM	EXAMINER	
		KOLASCH &	ANDERSON,	ANDERSON, CATHARINE L		
PO BOX 74 FALLS CHU		A 22040-0747	ART UNIT	PAPER NUMBER		
11122 551	, , , , , ,			3761		

DATE MAILED: 03/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/931,028	HAYASE ET AL.					
Office Action Summary	Examiner	Art Unit					
	C. Lynne Anderson	3761					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 03 De	ecember 2004 and 14 February 2	<u> 2005</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.						
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) ☐ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1.⊠ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite atent Application (PTO-152)					
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac	tion Summary Pa	rt of Paper No./Mail Date 20050315					

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3 December 2004 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1- are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al. (5,449,353) in view of Ujimoto et al. (5,064,489).

Watanabe discloses all aspects of the claimed invention with the exception of a pair of cuffs. Watanabe discloses a shorts-type disposable diaper 1, as shown in figure 2, comprising a liquid permeable topsheet 2, a liquid impermeable anti-leakage sheet 3, and an absorbent core 4. The diaper 1 has a body-surrounding portion 5a and 5b, and a plurality of body-surrounding elastic members 16 extending in a circumferential width direction of the diaper 1 between the leg and waist portions, as shown in figure 6. The elastic members 16 are disposed in the side portions of the diaper 1 and are not

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disposed in at least a center portion of where the absorbent core 4 exists. The elastic members 16 are secured in their stretched state and form gathers, as disclosed in column 7, lines 14-22. The elastic members are disposed between and joined to the topsheet and the anti-leakage sheet, which are the inner and outer sheets of the exterior member of the diaper. The elastic members 16 are cut at their center portion so that they are not disposed in at least the center of the portion of the diaper 1 where the absorbent core 4 exists, as shown in figure 6.

Ujimoto teaches the use of a pair of cuffs 5 provided on lateral sides of the absorbent core 3 of an absorbent article and fixed to the topsheet 1, as shown in figure 2. The cuffs 5 comprise a breathable liquid-resistant material, as disclosed in column 4, lines 34-35, and have one end fixed to the topsheet 1 over the length of the article and the other end free, as shown in figure 1. The cuffs 5 provide the article with improved leak protection, as disclosed in column 3, lines 39-45.

It would therefore be obvious to one of ordinary skill in the art at the time of invention to construct the article of Watanabe with a pair of cuffs, as taught by Ujimoto, to provide the article with improved leak protection.

With respect to claims 4 and 8, an elastic member 8 is fixedly disposed in the waist opening portion, as shown in figure 1, and has a greater elongation stress than the body surrounding elastic members 16, as disclosed in column 7, line 58 to column 8, line 1, and therefore has a greater 30% elongation stress. Given the ranges of elongation stresses disclosed, the ratio of elongations stresses will be between 1.5 and 6.0.

With respect to claim 6, Watanabe discloses all aspects of the claimed invention with the exception of the body-surrounding elastic members having inward ends that are slightly overlapping the absorbent core. It would have been an obvious matter of design choice to have the elastic members slightly overlap the absorbent core, since the applicant has not disclosed that this configuration serves any particular purpose or solves any stated problem, and it appears the invention would function equally well with the elastic members overlapping or not overlapping the absorbent core.

With respect to claim 7, the ratio of the width of the absorbent core 4 to the width of the diaper 1 is between 30% and 60%, as shown in figure 1. The ratio of the width of the portions containing the elastic members 11b to the width of the diaper 1 is between 40% and 95%, as shown in figure 1.

Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al. (5,449,353) in view of Ujimoto et al. (5,064,489), and further in view of Takabayashi et al. (5,817,087).

With respect to claim 2, Watanabe discloses all aspects of the claimed invention with the exception of the elastic members being positioned between the anti-leakage sheet and an outer sheet. Watanabe discloses a shorts-type disposable diaper 1, as shown in figure 2, comprising a liquid permeable topsheet 2, a liquid impermeable anti-leakage sheet 3, and an absorbent core 4. The diaper 1 has a body-surrounding portion 5a and 5b, and a plurality of body-surrounding elastic members 11b extending in a circumferential width direction of the diaper 1, as shown in figure 1. The elastic members 11b are disposed in the side portions of the diaper 1 and are not disposed in

at least a center portion of where the absorbent core 4 exists. The elastic members 11b are secured in their stretched state, as disclosed in column 4, lines 61-63, and form gathers, as disclosed in column 6, lines 15-19. The elastic members are disposed between and joined to the topsheet and the anti-leakage sheet, which are the inner and outer sheets of the exterior member of the diaper. The elastic members 11b are cut at their center portion so that they are not disposed in at least the center of the portion of the diaper 1 where the absorbent core 4 exists.

Takabayashi discloses a disposable diaper 1, as shown in figure 1, comprising body-surrounding elastic members 31 and 41. The elastic members are positioned between an anti-leakage sheet 9 and an outer sheet 3, as shown in figure 6. Positioning the elastic members between the anti-leakage sheet and the outer sheet provide the diaper with increased comfort, as described in column 8, lines 47-56.

It would therefore be obvious to one of ordinary skill in the art at the time of invention to position the elastic members of Watanabe between the anti-leakage sheet and an outer sheet, as taught by Takabayashi, to provide the diaper with increased comfort.

With respect to claim 3, the anti-leakage sheet and outer sheet comprise the inner and outer sheet of an exterior member, which is fixed to the absorbent body by partial bonding, as disclosed in column 5, lines 48-50.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al. (5,449,353) in view of Ujimoto et al. (5,064,489), and further in view of Iskra (5,021,050).

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Watanabe discloses all aspects of the claimed invention but remains silent as to the Taber stiffness of the absorbent core.

Iskra discloses a disposable diaper 10, as shown in figure 1, comprising an absorbent core 16, as shown in figure 3. The absorbent core 16 has a Taber stiffness of less than about 7 g/cm, as disclosed in column 3, lines 31-40. The low Taber stiffness of the absorbent core 16 allows the absorbent core 16 to be flexible enough to bend to form the shape of the diaper 10, as shown in figure 1.

It would therefore be obvious to one of ordinary skill in the art at the time of invention to construct the absorbent core of Watanabe with a Taber stiffness of less than 7 g/cm, as taught by Iskra, to give the absorbent core suitable flexibility.

Response to Arguments

Applicant's arguments with respect to Watanabe failing to disclose a pair of cuffs have been considered but are moot in view of the new ground(s) of rejection.

In response to applicant's argument that Watanabe fails to disclose the bodysurrounding elastic members being both disposed between and joined to an inner sheet
and an outer sheet of an exterior member of the diaper, it is noted that the claim does
not require the elastic members to be disposed between two sheets comprising the antileakage sheet. Both the topsheet and the anti-leakage sheet are exterior members of
the diaper, as opposed to the absorbent core, which is an interior member. The
topsheet therefore comprises the inner sheet, and the anti-leakage sheet comprises the
outer sheet. The elastic members are attached between these two sheets, as disclosed
in column 8, lines 62-65.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to C. Lynne Anderson whose telephone number is (571)

272-4932. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Larry Schwartz can be reached on (571) 272-4390. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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Business Center (EBC) at 866-217-9197 (toll-free).

March 15, 2005

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